

Best Management Practices for Stream Crossings

Where applicable, the seven BMPs listed below were evaluated to determine if BMPs for stream crossings were implemented. The **keyword(s)** emphasized in each statement below correspond with the labels used in Table 6.

Evaluated BMPs for Stream Crossings

- Roads or trails intersect stream and SMZ at as close to a **right angle** as possible.
- Road surfaces and cut banks (all bare soil) within SMZ **stabilized** as soon as is practical using effective measures (gravel, mulch, seed, etc.).
- Stream crossing approachways have **water control** devices to minimize erosion and control runoff (turnouts, sediment pits, check dams, etc).
- Stream **channel** use as access road or skid trail **avoided**.
- Stream crossings do not impede or **obstruct streamflow**.
- Debris and **soil** movement into stream channel at crossing is **minimized** or prevented.
- When temporary stream crossings are removed, the stream channel is **cleared** of **debris** and banks and approachways are properly stabilized.
- Specific recommendations for stream **crossing type** followed.

Surveyors qualitatively evaluated all BMPs for stream crossings (Table 6) to determine if BMP recommendations were followed and whether there was a risk to water quality. The Survey results are summarized in Table 6 as percentages.

Table 6. Implementation of BMPs for Stream Crossings by Region

BMPs for Stream Crossings	BMP Implementation				Properly Implemented BMP & NO RISK to WQ				Improperly Implemented BMP & RISK to WQ			
	S	M	P	C	S	M	P	C	S	M	P	C
Overall	72[↑]	52	77[↑]	78[↑]	98	93	99	100	75	87	57	84
Right Angle	99 [↑]	96	100	100 [↑]	93	71	96	100	0	0	N/A*	N/A*
Stabilized	51	21 [↓]	58	65	100	100	100	100	70	89	40	91
Water Control	39 [↓]	23 [↓]	45 [↓]	43 [↓]	98	100	96	100	62	95	39	59
Channel Avoided	97	92	98	98	100	100	100	100	75	50	100	100
Obstruct Stream	80 [↑]	87 [↑]	81	75 [↑]	100	100	100	100	88	100	80	91
Soil Minimized	63	25	74	71	100	100	100	100	87	94	79	85
Cleared Debris	72	33	74	75	100	100	100	100	71	100	43	100
Crossing Type	69	31	82	79	99	100	100	99	83	43	95	100
	Higher % is Optimal				Higher % is Optimal				Higher % is Not Optimal			
	S: Statewide		M: Mountains		P: Piedmont		C: Coastal Plain					
[↑] _↓ Indicates a change in implementation of ± 5 percent compared to the previous survey report.									Note: Numeric values as percents.			
*There were no surveys evaluated with these conditions.												